

10/21/13 - Homework:

- 2.9 - p. 141-143 (10-36 evens (skip 30), 54, 56)

Find each percent.

See Problems 1 and 2.

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| 9. What percent of 75 is 15? | 10. What percent of 15 is 75? |
| 11. What percent of 16 is 10? | 12. What percent of 32 is 40? |
| 13. What percent of 48 is 20? | 14. What percent of 88 is 88? |

Find each part.

See Problem 3.

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|---------------------------|-------------------------|
| 15. What is 25% of 144? | 16. What is 63% of 150? |
| 17. What is 12.5% of 104? | 18. What is 150% of 63? |
| 19. What is 125% of 12.8? | 20. What is 1% of 1? |
21. **Shopping** A tennis racket normally costs \$65. The tennis racket is on sale for 20% off. What is the sale price of the tennis racket?
22. **Hair Care** A beauty salon buys bottles of styling gel for \$4.50 per bottle and marks up the price by 40%. For what price does the salon sell each bottle?

Find each base.

See Problem 4.

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| 23. 20% of what number is 80? | 24. 80% of what number is 20? |
| 25. 60% of what number is 13.5? | 26. 160% of what number is 200? |
| 27. 150% of what number is 34? | 28. 1% of what number is 1? |

Tell whether you are finding a *percent*, a *part*, or a *base*. Then solve.

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| 31. What is 9% of 56? | 32. What percent of 36 is 96? | 33. What is 95% of 150? |
| 34. What is 175% of 64? | 35. What percent of 30 is 400? | 36. 60 is 250% of what number? |

Standardized Test Prep



54. A rare disease has been discovered that affects 2 out of every 10,000 trees in a forest. What percent of trees are affected?
- (A) 0.0002% (B) 0.002% (C) 0.02% (D) 0.2%
55. One kilometer equals about $\frac{5}{8}$ mi. A European racecar driver is driving at 120 km/h. Approximately what is this speed in miles per hour?
- (F) 75 mi/h (G) 100 mi/h (H) 160 mi/h (I) 192 mi/h
56. What is the solution of $\frac{x}{2} + \frac{x}{3} - 15 = 0$?
- (A) 12 (B) 18 (C) 24 (D) 30